

Johnson County

Estimated Economic Contribution of Agriculture, Food, and Food Processing Sectors 6/26/2019

Using the most recent IMPLAN data available (2017) adjusted for 2019, 45 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Johnson County economy.¹

These 45 sectors have a total direct output of approximately **\$2.98 billion** and support **8,867 jobs** in Johnson County. Running the model for all 45 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Johnson County Economy					
Contribution Type ²	Employment	% Employment	Total Value Added ³	Total Value Added % of Gross Regional Product ⁴	Output ⁵
Direct Effect	8867.3	1.94%	\$940,224,435	2.07%	\$2,975,572,250
Indirect Effect	3729.5	0.82%	\$452,604,263	0.99%	\$717,250,048
Induced Effect	3635.0	0.80%	\$326,366,568	0.72%	\$532,507,458
Total Effect	16231.8	3.55%	\$1,719,195,266	3.78%	\$4,225,329,757

As shown in the above table, agriculture, food, and food processing sectors support **16,232 jobs**, or **3.55%** of the entire workforce in the county.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 45 agriculture, food, and food processing sectors is approximately **\$1.72 billion**, or **3.78% of the GRP**.

The following tables document the top industries affected by employment and output, as well as a listing of all industries that were analyzed.

¹ Article on building a contribution analysis in IMPLAN that avoids double counting:

<https://implanhelp.zendesk.com/hc/en-us/articles/115002801513-Considerations-of-Contribution-Analysis>

² Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

³ Value added = labor income + indirect business taxes + other property type income.

⁴ GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

⁵ Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the landscape and horticulture services sector is the top employer with **3,412 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Johnson County.

Top Ten Agriculture, Food, and Food Processing Sectors by Employment		
Sector	Total Employment	Total Output
Landscape and horticultural services	3,412.2	\$273,049,043
Veterinary services	1,167.4	\$124,932,403
Wholesale trade	818.0	\$227,374,386
Bread and bakery product, except frozen, manufacturing	785.7	\$108,394,872
Dog and cat food manufacturing	497.4	\$775,959,668
Spice and extract manufacturing	472.7	\$290,655,670
Bottled and canned soft drinks & water	394.9	\$290,406,373
Real estate	343.8	\$74,004,387
Management of companies and enterprises	336.6	\$84,107,828
Full-service restaurants	299.6	\$15,565,614

The dog and cat food manufacturing sector directly contributes approximately **\$776.0 million** to the Johnson County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Agriculture, Food, and Food Processing Sectors by Output		
Sector	Total Employment	Total Output
Dog and cat food manufacturing	497.4	\$775,959,668
Fats and oils refining and blending	286.2	\$438,087,743
Spice and extract manufacturing	472.7	\$290,655,670
Bottled and canned soft drinks & water	394.9	\$290,406,373
Landscape and horticultural services	3,412.2	\$273,049,043
Wholesale trade	818.0	\$227,374,386
Veterinary services	1,167.4	\$124,932,403
Flour milling	100.9	\$121,675,600
Bread and bakery product, except frozen, manufacturing	785.7	\$108,394,872
Management of companies and enterprises	336.6	\$84,107,828

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Johnson County economy.

All Agriculture, Food, and Food Processing Sectors		
Sector	Total Employment	Total Output
Oilseed farming	11.3	\$7,628,883.84
Grain farming	12.8	\$3,025,199.41
Vegetable and melon farming	5.2	\$750,979.30
Fruit farming	6.5	\$409,307.63
Tree nut farming	0.0	\$68.00
Greenhouse, nursery, and floriculture production	57.3	\$6,058,041.10
All other crop farming	17.2	\$862,071.57
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	216.2	\$16,150,995.25
Dairy cattle and milk production	4.4	\$1,260,548.59
Poultry and egg production	0.4	\$216,239.96
Animal production, except cattle and poultry and eggs	249.3	\$19,764,589.31
Commercial logging	5.8	\$153,758.84
Commercial hunting and trapping	5.6	\$110,236.88
Support activities for agriculture and forestry	281.7	\$11,717,045.78
Dog and cat food manufacturing	497.4	\$775,959,655.76
Other animal food manufacturing	51.8	\$78,103,233.34
Flour milling	100.9	\$121,675,598.14
Fats and oils refining and blending	286.2	\$438,087,738.04
Nonchocolate confectionery manufacturing	74.0	\$29,882,860.18
Confectionery manufacturing from purchased chocolate	103.8	\$37,784,343.72
Animal, except poultry, slaughtering	5.7	\$4,895,996.57
Meat processed from carcasses	19.7	\$11,584,907.53
Poultry processing	12.2	\$3,570,754.77
Bread and bakery product, except frozen, manufacturing	785.7	\$108,394,866.94
Frozen cakes and other pastries manufacturing	28.6	\$4,743,022.92
Cookie and cracker manufacturing	15.4	\$5,325,165.75
Dry pasta, mixes, and dough manufacturing	44.3	\$26,690,818.79
Other snack food manufacturing	91.8	\$51,612,865.45
Coffee and tea manufacturing	39.8	\$24,001,876.83
Flavoring syrup and concentrate manufacturing	11.6	\$49,945,804.60
Spice and extract manufacturing	472.7	\$290,655,670.17
All other food manufacturing	149.6	\$60,088,562.01
Bottled and canned soft drinks & water	394.9	\$290,406,372.07
Breweries	23.3	\$9,850,182.53
Wineries	39.7	\$10,634,071.35
Distilleries	16.0	\$13,391,581.54
Other leather and allied product manufacturing	1.2	\$108,365.31
Paper mills	29.9	\$23,103,450.78
Farm machinery and equipment manufacturing	20.1	\$8,096,131.32
Lawn and garden equipment manufacturing	27.8	\$12,489,988.33
Food product machinery manufacturing	13.8	\$4,220,775.60
Sawmill, woodworking, and paper machinery	17.2	\$4,221,035.48

All other industrial machinery manufacturing	38.8	\$9,957,112.31
Veterinary services	1167.4	\$124,932,403.56
Landscape and horticultural services	3412.2	\$273,049,041.75

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Johnson County, the retail sector was omitted.